

**ABSTRACT OF THE DISCLOSURE**

A hydrophilic immobilization layer for biosensors is made of a radically cross-linkable hydrogel based on polyacrylamide. The starting composition includes acrylamide, cross-linkers, radical initiator(s), at least one comonomer having reactive linker groups and optionally may include softeners. Alternatively, the inventive layer may be of a photostructured hydrogel based on polyacrylamide. The starting composition includes acrylamide, cross-linkers, photoinitiators, at least one film former, at least one comonomer having reactive linker groups and optionally may include softeners.